

DOE 450.1 IMPLEMENTATION WORKSHOP

WATERSHED APPROACH
TO FEDERAL LAND AND
RESOURCE MANAGEMENT

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WATERSHED APPROACH & RESOURCE MANAGEMENT

- Watershed is defined as a geographic area of land, water, and biota within the confines of a drainage divide. The total area above a given point of a water body that contributes flow to that point.
- DOE signed a unified federal policy (UFP) with seven other Federal agencies to implement the Clean Water Action Plan to comply with the goals of the Clean Water Act.

ENVIRONMENTAL INTERACTIONS

- Convene a team to identify site activities and their interactions with watershed management
- Common activities, services and products at DOE sites may include: Office work, sample analysis, construction, painting, chemical analysis, building construction and maintenance, D&D, etc.
- Aspects may include:
 - Waste generation and discharge to watershed
 - Spills from raw material storage, construction and maintenance
 - Fresh water and energy consumption
 - Solid waste generation and disposal
 - Radiation

ENVIRONMENTAL IMPACTS

- Classify environmental impacts by probability of occurrence and likely consequences
- Environmental impacts on watershed may include reduced landfill space, reduction of fresh water supply, reduction in the number of flora & fauna in degradation of water quality, etc.

APPLICABLE REGULATORY REQUIREMENTS

- Clean Water Act, as amended
- Identify and communicate applicable legal and other requirements on watershed management
- Ensure that these requirements are factored into the organization's management efforts
- Methods for obtaining information about applicable laws or regulations include:
 - Common services,
 - Regulatory agencies
 - Trade groups/associations
 - The internet, public libraries, training opportunities
 - Newsletters/magazines
 - Consultants, attorneys, and vendors

OTHER REQUIREMENTS

- DOE Order 450.1, Environmental Protection Program, January 15, 2003
- Unified Federal Policy for a Watershed Approach to Federal Land and Resource Management, October 18, 2000

ENVIRONMENTAL TARGETS AND OBJECTIVES

- Brainstorm with the team to select priority watershed for protection and restoration in which to focus Federal resources
- The watershed management objectives must be reasonable, technologically feasible, consistent with other organizational plans, and affordable. Example: Use a consistent, science-based approach to watershed assessments on Fed lands
- The watershed management targets are to meet the Clean Water Act responsibilities

CHECKING AND CORRECTIVE ACTION

- Establish procedures to assess the deficiency of watershed management and take corrective action to remediate the problem
- EMS audits on watershed management may focus on:
 - Watershed management policy
 - Watershed management planning
 - EMS implementation and operation
 - Watershed monitoring and measurement
 - Management review